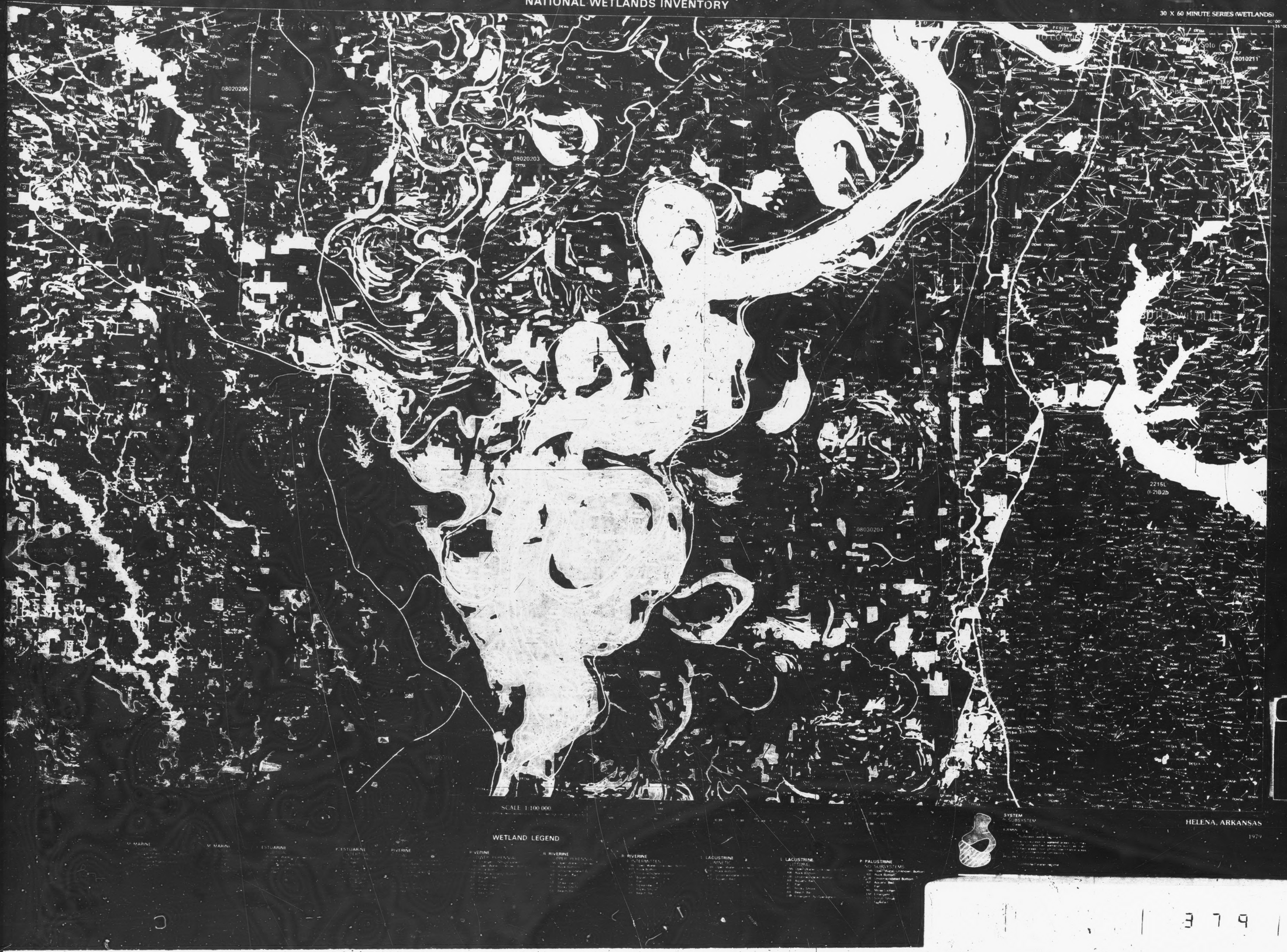
A. ARKANSAS

NATIONAL WETLANDS INVENTORY

30 X 60 MINUTE SERIES (WETLANDS)



1:100 000-scale
wetland map of

Helena
ARKANSAS

30 X 60 MINUTE QUADRANGLE SHOWING

- Wetland classifications
- Highways, roads and other manmade structures
- Water features
- Geographic names

FISH & WILDLIFE SERVICE

1979

Produced by the United States Fish and Wildlife Service
Wetland classifications from 1:130 000-scale aerial infrared color photographs taken 1974. 1:60 000-scale black and white aerial photographs taken 1975–1976, and other source data.

SPECIAL NOTE

COMPARISON TABLE | DECLINATION DIAGRAM | ADJOINING MAPS

UTM grid ticks based on NAD 27 and 1927 North American Datum (NAD).
'A' interval of tick mark (Zeroes 'A' supressed)

1. Helena
2. Mosquito Lake
3. Marvell
4. Barton
5. Holly Springs
6. De Witt
7. Clarendon
8. Elaine

MICROFICHE INDEX
HELENA (HELENA NW)

WEST | EAST

SCALE 1:100 000

WETLAND LEGEND

M. MARINE | M. MARINE | ESTUARINE | ESTUARINE | RIVERINE | R. RIVERINE | R. RIVERINE | R. RIVERINE | L. LACUSTRINE | L. LACUSTRINE | P. PALUSTRINE

SYSTEM
SUBSYSTEM
CLASS

HELENA, ARKANSAS

1979

379 028

NATIONAL WETLANDS INVENTORY

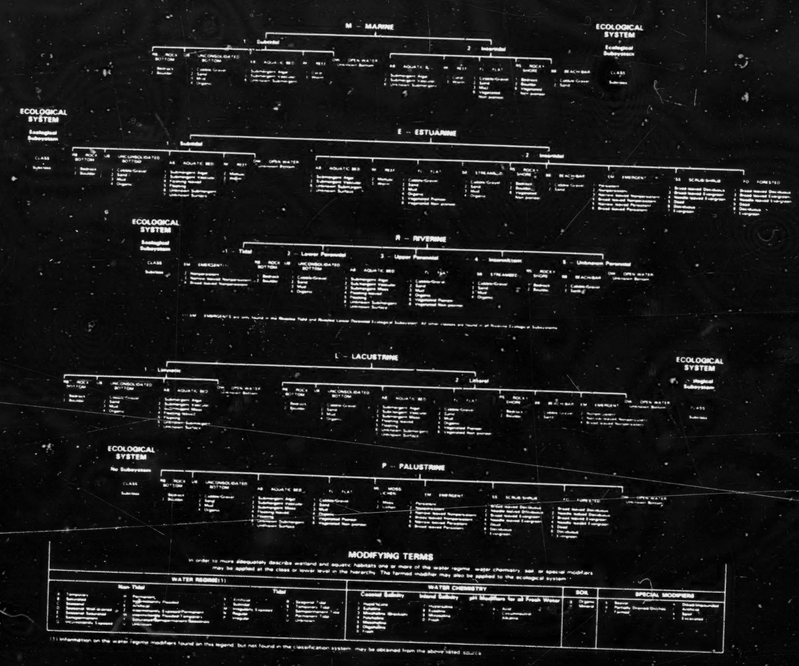
UNITED STATES DEPARTMENT OF THE INTERIOR

MICROFICHE INDEX
HELENA (HELENA NE)

WEST	EAST

WETLAND LEGEND

0 - Primarily represents wetland areas, but may include unclassified wetlands such as man modified areas, non photo-identifiable areas and/or unintentional omissions



MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The tidal modifier may also be applied to the ecological system.

| WATER REGIME(1) | | |

NATIONAL WETLANDS INVENTORY
UNITED STATES DEPARTMENT OF THE INTERIOR

PARK PLACE, ARKANSAS

MICROFICHE INDEX
HELENA (HELENA NE)

WEST | EAST

ECOLOGICAL SYSTEM

SPECIAL NOTE

This document was prepared primarily by
analysis of high altitude aerial photographs. W
identified on the photographs based on visual
hydrology, and geography in accordance wit
tion of Wetlands and Deep-Water Habitats
States (An Operational Draft), Cowardin, et a
aerial photographs typically reflect conditions
specific year and season when they were tak
tion, there is a margin of error inherent in the
aerial photographs. Thus, as detailed on the
historical analysis of a single site may result in
the wetland boundaries established through
interpretation. In addition, some small wetland
obscured by dense forest cover may not be inc
document.

Federal, State and local regulatory agencies
tion over wetlands may define and describe we
different manner than that used in this inventory
no attempt, in either the design or products of
tory, to define the limits of proprietary jurisdic
Federal, State or local government or to
geographical scope of the regulatory progra
ment agencies. Persons intending to engage in
volving modifications within or adjacent to wa
should seek the advice of appropriate Federal, S
agencies concerning specified agency regulato
and proprietary jurisdictions that may affect such

NATIONAL WETLANDS INVENTORY
UNITED STATES DEPARTMENT OF THE INTERIOR

MARVELL, ARK.

MICROFICHE INDEX
HELENA (HELENA NE)

WEST | EAST

WETLAND LEGEND

U - Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, or photo-identifiable areas and/or phenomenal inclusions

M - MARINE

E - ESTUARINE

R - RIVERINE

L - LACUSTRINE

P - PALUSTRINE

ECOLOGICAL SYSTEM

MODIFYING TERMS

WATER REGIMES		WATER CHEMISTRY		SOILS	SPECIAL MODIFIERS
Non-Tidal	Tidal	General Salinity	General Alkalinity		
A Temporarily Flooded	G Subtidal	1 Hyperhaline	1 Hyperalkaline	1 Organic	b Beaver
B Saturated	H Irregularly Exposed	2 Eusaline	2 Eualkaline	2 Mineral	d Partly Drained/Ditched
C Seasonally Flooded	J Regularly Flooded	3 Mixohaline (Brackish)	3 Mixosaline		h Diked/Impounded
E Seasonally Flooded/Saturated	K Artificially Flooded	4 Polyhaline	4 Mixoalkaline		f Farmed
F Semipermanently Flooded		5 Mesohaline	5 Subsaline		x Excavated
H Permanently Flooded		6 Oligohaline	6 Fresh		
J Intermittently Exposed		7 Mixohaline (Fresh)			
K Artificially Flooded					

Information on the water regime model - no key is on this legend, but can be found in the classification system, may be obtained from the above listed source

SPECIAL NOTE

The document was prepared primarily by stereoscopic analysis of high altitude aerial photographs. Wetlands were identified on the photographs based on vegetation, visible hydrology, and geography in accordance with "Classification of Wetlands and Deep-Water Habitats of the United States (An Operational Draft)," Cowardin, et al, 1977. The aerial photographs typically reflect conditions during the specific year and season when they were taken. In addition, there is a margin of error inherent in the use of the aerial photographs. Thus, a detailed on the ground and historical analysis of a single site may result in a revision of the wetland boundaries established through photographic analysis. In addition, some small wetlands and those obscured by dense forest cover may not be included on the documents.

Federal, State and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no intention, on either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, State or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons proposing to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, State or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

SYMBOLOGY EXAMPLE

NOTES TO THE USER

- Wetlands which have been field examined are indicated on the map by an asterisk (*).
- Dominance type (either vegetative or sedentary animal) can be added to this map by the interested user.
- Additions or corrections to the wetlands information displayed on this map are solicited. Please forward such information to the address indicated.

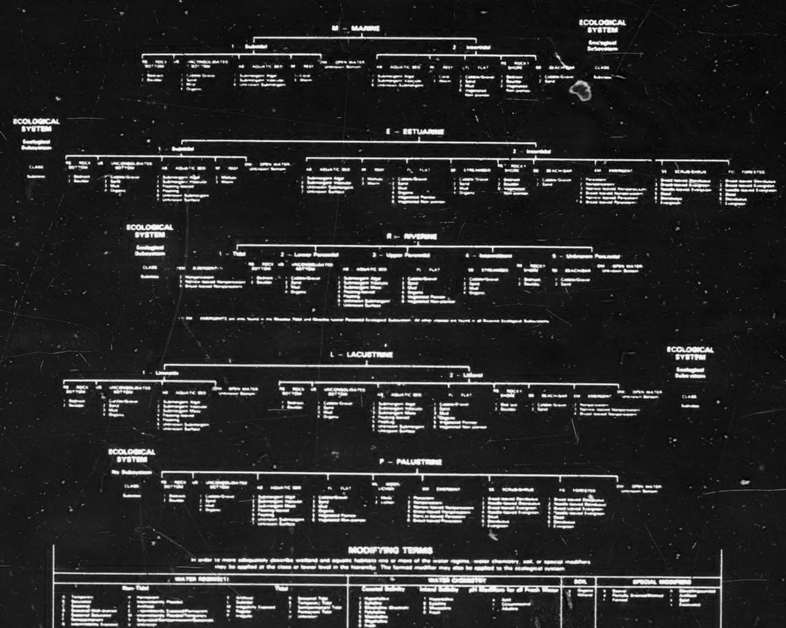
379 031

NATIONAL WETLANDS INVENTORY
UNITED STATES DEPARTMENT OF THE INTERIOR

MICROFICHE INDEX
HELENA (HELENA NE)

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non-photo-identifiable areas and/or unintentional omissions.



MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats any or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The water regime modifier may also be applied at the ecological system.

WATER REGIME(S)	WATER CHEMISTRY	SOIL	SPECIAL MODIFIERS
Non-Tidal: Permanently Flooded; Intermittently Exposed; Semipermanently Flooded; Seasonally Flooded; Saturated; Artificially Flooded; Tidal: Subtidal; Irregularly Exposed; Regularly Flooded; Irregularly Flooded	General Modifiers: Hyperhaline; Euhaline; Mixohaline (Brackish); Polyhaline; Mesohaline; Oligohaline; Fresh; Limnetic; Salinity Modifiers (ppt): Hypersaline; Eusaline; Hyposaline	Organic; Mineral	Beaver; Partly Farmed; Diked/Impounded; Farmed; Artificial

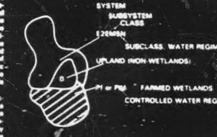
(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

SPECIAL NOTE

This document was prepared primarily by stereoscopic analysis of high altitude aerial photography. Wetlands were identified on the photographs based on vegetation, visible hydrology and geography in accordance with "Classification of Wetlands and Deepwater Habitats of the United States (Ad Hoc Committee Draft), Cowardin, et al, 1977. The aerial photographs typically reflect conditions during the spring of the year, usually before any significant agricultural practices have begun. In addition, there is a margin of error inherent in the use of aerial photography. Thus, a detailed on-the-ground and historical analysis of a site may clearly result in a revision of the wetland boundaries established through photographic interpretation. In addition, some small wetlands and those obscured by dense forest cover may not be included on this document.

Federal, State and local regulatory agencies with jurisdiction over wetlands may define and delineate wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the legal extent of proprietary jurisdiction of any Federal, State or local governments or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, State or local agencies concerning applicable agency regulatory programs and proprietary jurisdictions that may affect such activities.

SYMBOLOGY EXAMPLE



NOTES TO THE USER

- Wetlands which have been field examined are indicated on the map by an asterisk (*).
- Dominance type (either vegetative or sedentary animal) can be added to the map by the interested user.
- Additions or corrections to the wetlands information depicted on this map are solicited. Please forward such information to the address indicated.

379 032

NATIONAL WETLANDS INVENTORY
UNITED STATES DEPARTMENT OF THE INTERIOR

HELENA NE
HELENA
HELENA SE
HORSESHOE LAKE AR MISS TENN

MICROFICHE INDEX -
HELENA (HELENA NE)

WEST	EAST

WETLAND LEGEND

0 - Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions

M - MARINE

E - ESTUARINE

R - RIVERINE

L - LACUSTRINE

P - PALUSTRINE

ECOLOGICAL SYSTEM

MODIFYING TERMS

In order to more adequately describe wetland and deepwater habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The format modifier may also be applied to the ecological system.

WATER REGIME (1)		WATER CHEMISTRY	SOIL	SPECIAL MODIFIERS
Non-Tidal	Tidal	Coastal Salinity		

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source

SPECIAL NOTE

This document was prepared primarily by stereoscopic analysis of high-altitude aerial photographs. Wetlands were identified on this photographic record on vegetation, visible hydrology, and geography in accordance with Classification of Wetlands and Deep Water Habitats of the United States (An Operational Draft), Cowardin, et al, 1977. The aerial photographs typically reflect conditions during the specific year and season when they were taken. In addition, there is a margin of error inherent in the use of the aerial photographs. Thus, a detailed on-the-ground inspection of any portion of a single site may result in a revision of the wetland boundaries established through photographic interpretation. In addition, some small wetlands and those obscured by dense forest cover may not be included on this document.

Federal, State and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a manner similar to or different than used in this inventory. There is no intent by the Service to define the scope or products of the programs of other agencies. Persons interesting to engage in activities in wetlands may be required to contact one or more agencies to determine which regulations or permits are applicable. The Service should seek the advice of appropriate Federal, State or local agencies concerning such cited agency regulatory programs and proprietary jurisdictions that may affect such activities.

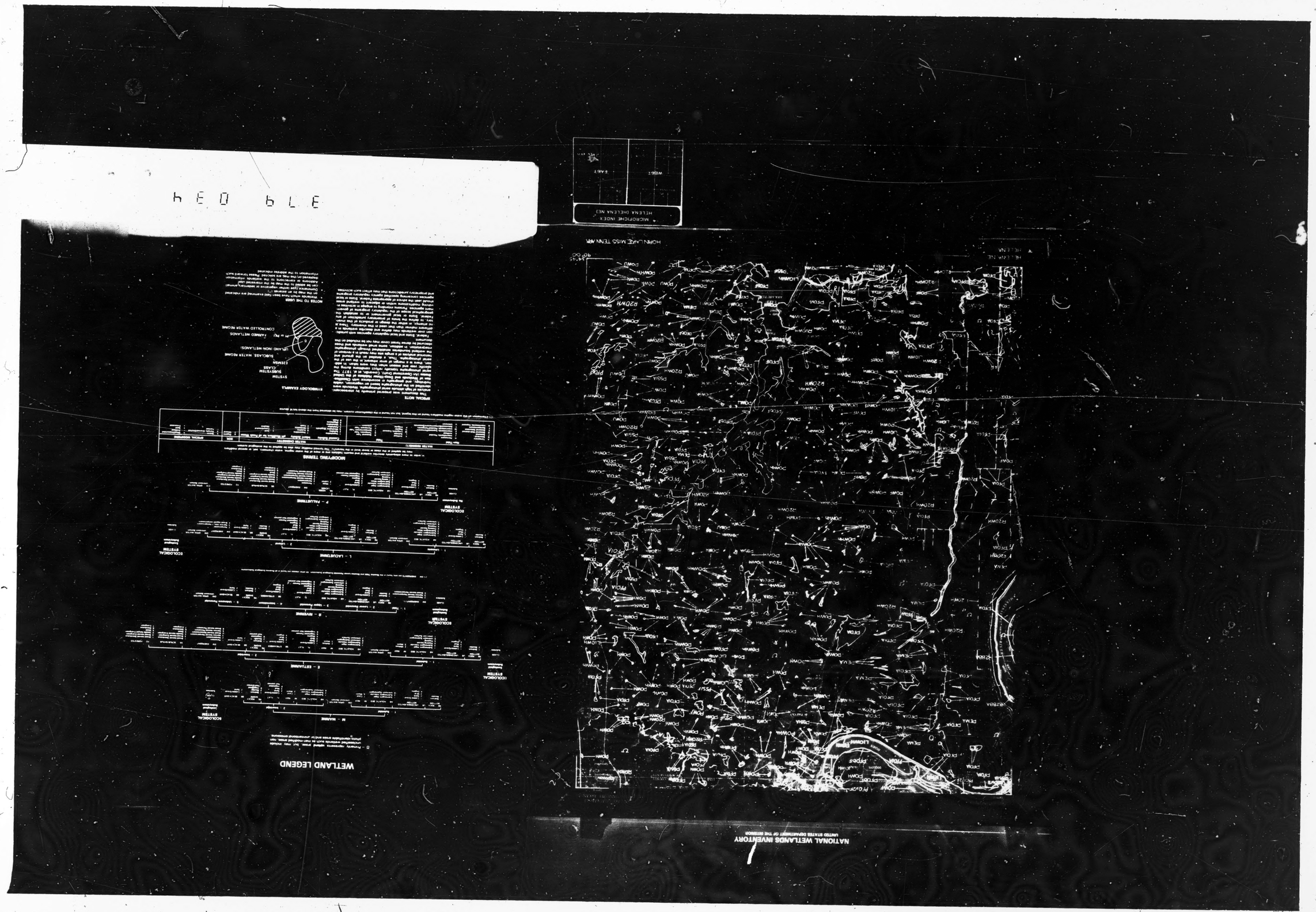
SYMBOLOGY EXAMPLE

SYSTEM
SUBSYSTEM
CLASS
EZEMSN
SUBCLASS WATER REGIME
UPLAND (NON WETLANDS)
FARMED WETLANDS
CONTROLLED WATER REGIME

NOTES TO THE USER

- Wetlands which have been field examined are indicated on the map by an asterisk (*)
- Comments (either negative or supportive) are welcome. Can be added to the map by the interested user.
- Additions or corrections to the wetlands information displayed on this map are solicited. Please forward such information to the address indicated.

3 7 9 0 3 3


HELENA (HELENA NE)
WEST
EAST
HORN LAKE MISS TENN MAP
WETLAND LEGEND
MODIFYING TERMS
NATIONAL WETLANDS INVENTORY
UNITED STATES DEPARTMENT OF THE INTERIOR

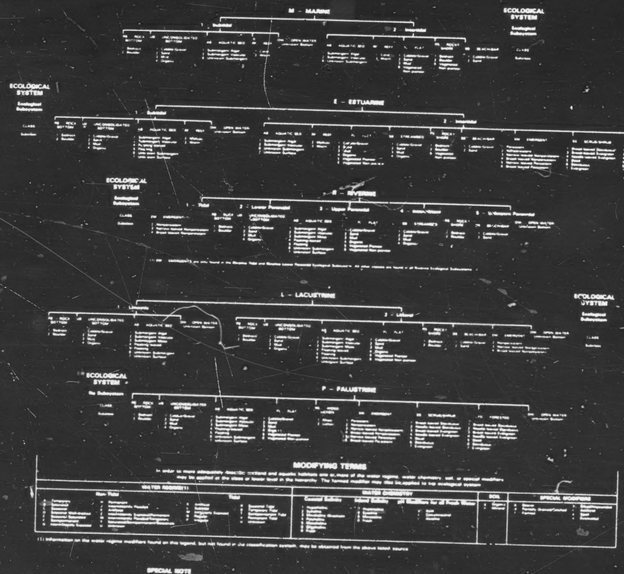
NATIONAL WETLANDS INVENTORY
UNITED STATES DEPARTMENT OF THE INTERIOR

MICROFICHE INDEX
HELENA (HELENA NE)

WEST	EAST
	HELENA

WETLAND LEGEND

D - Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas; non-photo-identifiable areas and/or unmapped inclusions



MODIFYING TERMS

In order to more adequately describe the vegetated and aquatic habitats and, in most of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The revised modifier may differ from or be unrelated to the ecological setting

Water Regime			Water Chemistry		Soil	Special Modifiers
Nontidal	Tidal		Coastal Salinity	Inland Salinity		
Permanently Flooded	Subtidal	Permanently Flooded-Tidal	Hypersaline	Hypersaline	Organic	Beaver
Intermittently Exposed	Irregularly Exposed	Intermittently Flooded-Tidal	Euhaline	Eusaline	Mineral	Partly Drained/Ditched
Semipermanently Flooded	Regularly Flooded	Saturated-Tidal	Mixohaline (Brackish)	Mixosaline		Farmed
Seasonally Flooded	Irregularly Flooded	Artificially Flooded	Polyhaline	Polysaline		Diked/Impounded
Saturated			Mesohaline	Mesosaline		
Artificially Flooded			Oligohaline	Oligosaline		
			Fresh	Fresh		

(1) Information on the water regime modifiers found on this legend, but not found in our classification system, may be obtained from the above listed source

SPECIAL NOTE

This document was prepared primarily by interpretation of color infrared aerial photographs. Wetlands were identified on the photographs based on vegetation, visible hydrology and geography in accordance with the "Classification of Wetlands and Deepwater Habitats of the United States (An Operational Draft)," Cowardin, et al, 1977. The areal extent of wetlands may reflect conditions during the specific year the photograph was taken. In this case, 1979. Due to the nature of the data source, the use of aerial photographs, there is a margin of error inherent in the identification of the vegetation and boundaries. This may result in a revision of the wetland boundaries or classification if ground truthing is undertaken. In addition, some small wetlands and those obscured by dense forest cover may not be included on this document.

Federal, State and local regulatory agencies with jurisdiction over wetlands may define and delineate wetlands in a different manner than that used in this inventory. There is no attempt, in any way, to define the limits of proprietary jurisdiction of any Federal, State or local government or to take the place of the jurisdictional lines of the regulatory programs of governmental agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should first contact the appropriate Federal, State or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

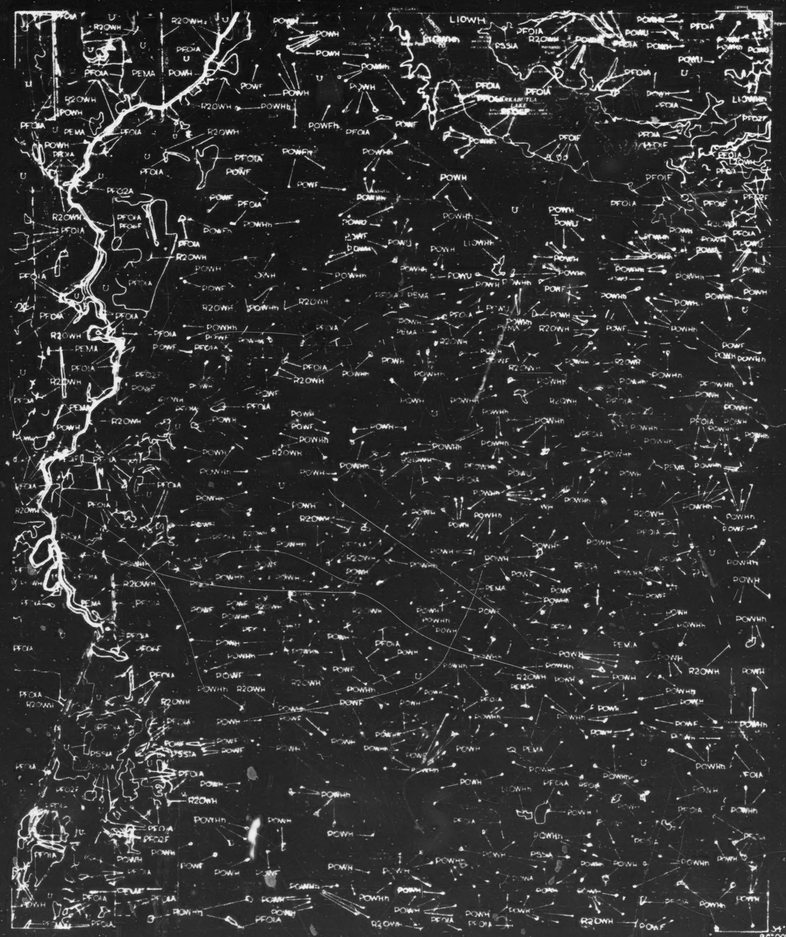
SYMBOLOGY EXAMPLE

NOTES TO THE USER

- Wetlands which have been field examined are indicated on the map by an asterisk (*).
- Questions as to the wetland vegetative or aesthetics aremail can be posed to the map user by the interpretive user. Addressed to United Mail to the wetlands information displayed on this map and mentioned. Please forward such information to the address indicated

379 035

NATIONAL WETLANDS INVENTORY
UNITED STATES DEPARTMENT OF THE INTERIOR



MICROFICHE INDEX
HELENA (HELENA NE)

WEST

EAST

WETLAND LEGEND

U - Primarily represents wetland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unvegetated emissions.

M - MARINE

E - ESTUARINE

R - RIVERINE

L - LACUSTRINE

P - PALUSTRINE

ECOLOGICAL SYSTEM

MODIFYING TERMS

SPECIAL NOTE

This document was prepared primarily by stereoscopic analyses of high altitude aerial photographs. Wetlands were identified on the photographs based on vegetation, hydrology, and geography in accordance with Classification of Wetlands and Deep Water Habitats of the United States (An Operational Draft), Cowardin, et al, 1977. The aerial photographs typically reflect conditions during the growing year and season when study areas were taken. In addition, there is a margin of error inherent in the use of the aerial photographs. That, is applied on the ground and aerial photographs of a single site may result in a revision of the wetland boundaries established through photographic interpretation. In addition, some small wetlands and those obscured by dense forest cover may not be included on this document.

Federal, State and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no intent on the part of the Service to define, delineate, or classify wetlands for the purpose of preparatory jurisdiction of any Federal, State or local government or to establish the uniform wetlands of the various programs of governmental agencies. Persons may need to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, State or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

SYMBOLOGY EXAMPLE

SYSTEM
SUBSYSTEM
CLASS
EXAMPLE
SUBCLASS WATER REGIME
UPLAND (NON WETLANDS)
Pf or PEf FARMED WETLANDS
CONTROLLED WATER REGIME

NOTES TO THE USER

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2. Dominance type (either vegetative or sedentary animal) can be added to the map by the interested user.
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379 036